### Old Soldiers Home Levee Setback Project

### 1 Project Description

The project will consist of a setback levee along the Puyallup River near Orting, WA at river miles 21.3 to 22.5, approximately 6376 feet in length, with a maximum toe width of 50 feet, along the inside of an existing meander bend. The top will be 12 feet wide, and the river face will have a buried toe of 9 feet width. Total width is expected to vary based on height of levee. The levee will be approximately 950 feet from the existing levee at the widest portion of the site. The back slope will be 5 to 1, and the fore slope will be 2 to 1. The levee will consist of approximately 55,107 Cubic Yards (CY) of gravel, 3506 CY of 3/4 inch minus crushed rock, and will be faced with 5929 CY of 30 inch minus riprap. The alignment of the levee is shown in the figures in Section 6 below. The alignment follows property boundaries and roads as closely as possible until it turns back into the existing levee at 5500 feet. The alignment maximizes the floodplain area, forested wetland, and relict side-channel habitat that will be reconnected (67 acres)

Concurrent with this construction, rip-rap will be added to three existing areas at the project site and in the project vicinity: (1) 350 feet upstream of the upstream project end on the left bank; (2) between the downstream project end and a point 100 feet below the Calastoga bridge on the left bank; (3) 150 feet of work at and along the right bank, only as needed along the right bank to protect the existing levee from damage due to changes in river hydraulics. Specific construction features are described in Table 1

Table 1 Summary of the construction features

Feature Name	Length (ft)	Width (ft)	Riprap Qty (CY)	Comments
Set-back Levee	6376	50	5929	950ft max setback from river
Right Bank levee upgrade	6472	Varies	3054	Sized based on need to reach
RT bank below Bridge	145	Varies	84	3ft total thickness based
LFT Bank Below Bridge	150	50	89	on existing riprap
DS LFT Bank Existing levee	1090	50	1327	Flap gate for existing opening
US Left Bank Existing Levee	350	50	168	Protects new toe and tie-in point
Above Project LFT bank existing Levee	150	50	86	2900 ft above US end of new levee

Construction is expected to begin in July 2006 with the setup of staging and construction management areas. Access will be obtained through Pierce County property, and through a construction access easement from the Washington State Old Soldiers Home. Construction of the levee will begin from the down stream end, and work up stream. Concurrently, the existing levee will be demolished including all armor or face rock to the toe of the levee, which is at or below the Ordinary High Water mark (OHW). Materials from the existing levee will be salvaged and included in the new setback levee. Construction will proceed in this parallel fashion, with additional materials brought to the site from a Pierce County gravel pit located approximately 1 mile away. Construction is expected to be completed no later then the end of 2007 Once the setback levee is complete, two channels will be excavated in a downstream upstream fashion, creating two openings of 200 linear feet to facilitate reconnection to the river The channels will be sited based on field conditions, and their final positions and sizes will be reported in the As-Built drawings. Existing levee vegetation larger then 8 inches DBH will be preserved, to comply with the policies of the Puyallup Tribe Vegetation Settlement agreement. No new vegetation will be planted on the existing levee once its demolition is completed. No vegetative plantings are anticipated within the already heavily vegetated site

### 2. Required Permits and Approvals

- a) Hydraulic Project Approval, Washington Department of Fish and Wildlife
   Permit No. 102160-1, issued July 12, 2005
- b) Pierce County Determination of Nonsignificance and Adoption of Existing Environmental Document
  - Application No. 402265, issued April 25, 2005
- c) Final Environmental Assessment, U.S. Army Corps of Engineers, Seattle District issued February 2005
- d) Finding of No Significant Impact (FONSI), U.S. Army Corps of Engineers, Seattle District
  - issued March 31, 2005
- e) Consultation under the Endangered Species Act and the Magnuson-Stevens Fishery Conservation and Management Act.
  - Letter of concurrence by NOAA, August 3, 2004
  - Letter of concurrence by U.S. Fish and Wildlife Service, October 20, 2004
- f) Section 404 Permit, U.S. Army Corps of Engineers, Seattle District pending
- g) Shoreline Substantial Development Permit, City of Orting pending

- h) Shoreline Substantial Development Permit, Pierce County pending
- i) Section 401 Water Quality Certification, Washington Department of Ecology pending

## 3. Project Construction and Development Schedule

a Permit Applications filed	Done
b. Ninety-percent design completed	July 1, 2006
c Construction completion	Two years after entry of this Consent Decree
d. Post-Construction Report (5.a below)	180 days after Trustees' Notice of Approval of Completion for the Project
e Project completion accounting	180 days after Trustees' Notice of Approval of Completion for the Project

### 4. Project Performance Evaluation Plan

a Defendants will provide the Trustees with a post-construction report including a letter of completion from Pierce County's contractor and "as-built" drawings demonstrating that the existing river levee has been reduced in height to the Ordinary High Water mark within the Project area as described in section 1 above. If the post-construction "as-built" drawings do not demonstrate compliance with this height limit, the defendants will be required to perform additional work as necessary to bring the levee down to the specified level. Consent decree enforcement terms (stipulated penalties and liquidated damages) will be tied to this element.

b The Trustees shall perform spawning surveys to be conducted every 10 days from September 1 through December 31. The surveys will begin the year after construction is complete and will run for two consecutive years. The defendants have reimbursed the Trustees for the cost of such surveys in the Restoration Oversight Costs provided in the Consent Decree. No performance objective (i.e., X% increase in spawning, etc.) or adaptive management will be tied to this monitoring element, and the information derived from the spawning surveys shall not provide a basis for any additional work by the Defendants. It is intended solely to provide information to the Trustees to assist them in determining whether levee setback projects achieved their intended purpose.

5 Project Adaptive Management Plan

None

6 Exhibits:

- A Project Map
- B. Project Drawings
- C. Project Photos

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Exhibit A Project Map

United States, et al., v. AOL Express, Inc., et al. Appendix A - Page 5

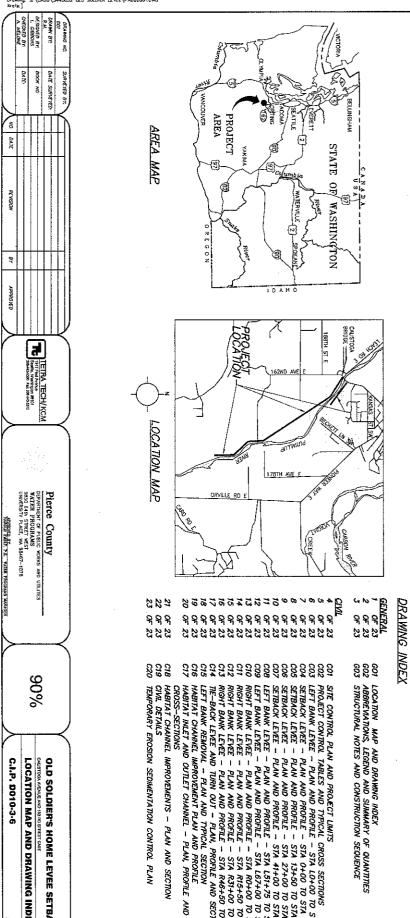
# Exhibit B Project Drawings



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STORM DRAINAGE AND OLD SOLDIER'S HOME LEVEE SETBACK SURFACE WATER MANAGEMENT UTILITY

CIP Project Number D010-3-6



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